BRUHAT BENGALURU MAHANAGARA PALIKE

TENDER DOCUMENT – KW4

(WORKS COSTING MORE THAN Rs. 100 LAKHS)

Name of Work: - Improvements to roads, drains and other developmental works at 407,707,208 SFS, Major Akshay Girish Kumar Road, Yelahanka 4th & 5th phase and surrounding areas in ward No 01,03 & 04 of Yelahanka Division under Amruth Nagarothan Grants.(PACKAGE No-04)

Estimate Cost: 1000.00 Lakhs

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EXECUTIVE ENGINEER
YELAHANKA DIV

BRUHAT BENGALURU MAHANAGARA PALIKE

No: BBMP/EE/YNK/DE-2/NIT/06-2022-23

Office of the Executive Engineer
Yelahanka Division, Bangalore – 560064
Dated: 24-06-2022

INVITATION FOR E-TENDER (eT)
Short term Tender Notification
For the Year 2022-23
Through KPPP e-Procurement Portal (e-Tender)

1. The Executive Engineer, Yelahanka Division invites tenders on behalf of the Commissioner, BBMP, Bengaluru from eligible Tenderers for the construction of works specified in the table below. The tenderers may submit tenders for works given in the table through e-Procurement Portal of the Government of Karnataka (vide www.eprocurement.gov.in). The Tenderers are advised to note the minimum time requirements given in Clause 5 of the instructions to Tenderers to qualify for award of the contract as per contract tender document KCT-4.

2. Tender shall be accompanied by Earnest Money Deposit specified for the work in the table below. Earnest money deposit will have to be in any one of the forms as specified in the Tender document. Minimum of Rs.10,000/- through payment order or pay order drawn in favour of "EE, YNK" and the balance by bank guarantee issued by Nationalized Bank as per KCT-4 and shall have to be valid for 180 days beyond the tender validity date.

3. Tender shall be submitted online through e-procurement portal on or before 15:00 hours on 04-07-2022 and the opening of tender will be as per the e-procurement portal guideline.

4. [illegible] to be paid to the tenderer before tendering.

5. [illegible] to be used in the tender document.

Sl. No.	Name of the Work	Tender Put Amount in Lakhs	EMD in Lakhs	Cost of Tender form in Rs. (Non-Refundable)	Period of Completion in
1	Improvements to roads, drains and other developmental works at Kamakshi Nagar, Manjunatha Layout, Venkatagiri Layout, Tandigepalya, RMV 2nd stage, Veera Nagara, Immadihalli, PG Halli, RMV 2nd stage and surrounding areas in ward No. 60 of Yelahanka Division under Amruth Nagarothana Scheme. (PWD/KRIDL/No-01)	1[illegible]33.15		As per E-Procurement Portal	180 days
2	Improvements to roads, drains and other developmental works at 5th phase, puttenahalli, RMV 2nd stage, Jayanagar Layout, Kamakshamma Layout, Thimmappa Layout, A sector and surrounding areas in ward No. 62 & 64 of Yelahanka Division under Amruth Nagarothana Scheme. (PWD/KRIDL/No-02)	1160.00	15.00	As per E-Procurement Portal	180 days

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3	Improvements to roads, drains and other developmental works at Akshaya, Tirumala Nagar, Attur layout, Santhosh nagara, Muneshwara layout, Sri Sai layout, B sector and surrounding areas in ward No 03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-03)	1865.00	18.65	As per E-Procurement Portal	180 days
4	Improvements to roads, drains and other developmental works at 407,707,208 SFS, Major Akshay Girish Kumar Road, Yelahanka 4th & 5th phase and surrounding areas in ward No 01,03 & 04 of Yelahanka Division under Amruth Nagarothan Grants.(PACKAGE No-04)	875.00	13.15	As per E-Procurement Portal	180 days
5	Improvements to roads, drains and other developmental works at Shivamandira road, Mathru layout, Sharada Nagar, Judicial Layout and Surrounding Areas in ward No 02,03 & 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-05)	1140.00	15.00	As per E-Procurement Portal	180 days
6	Construction of Synthetic tennis court, street vending zone & other developmental works at judicial layout main and cross roads, Chikkabommasandra, Someshwara Nagar, Allalasandra village and surrounding areas in ward No 04 of Yelahanka Division under Amruth Nagarothan Grants. (PACKAGE No-06)	1750.00	17.50	As per E-Procurement Portal	180 days

Calendar of events:

- Date of Pre bid meeting at the office Executive Engineer (Yelahanka Division) on **08-07-2022** at **16.00 hrs.**
- Date of Opening of bids on **18-07-2022 after 11:00 hours**

ESSENTIAL CONDITIONS:

1. The Tender Notification along with Blank Tender Form will be accessible in the website of GOK e- Procurement Platform **(Error! Hyperlink reference not valid..**
2. The interested contractors / suppliers may download the tender documents. The contractors may choose or otherwise attending the pre-bid meeting indicated in the Invitation for Tender.
3. Tender documents may be downloaded from Government of Karnataka e-Procurement website **http://eproc.karnataka.gov.in** under login for Contractors. Aspiring Bidders/Contractors who have not registered in e-procurement should register before participating through the website https://eproc.karnataka.gov.in or contact e-Procurement Helpdesk at 080 – 22485867 / 22485927.
4. The contractors shall submit the digitally signed tenders electronically on or before the date and time of submission published in the e-procurement portal along with stipulated EMD notified in the tender document.

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21. **An additional security for unbalanced bids in the form of DD/ Bank Guarantee to be submitted in favor of Commissioner BBMP to the undersigned before opening of the technical bid otherwise their bids will be rejected.**
22. The Tender Accepting Authority shall have the power to accept or to reject any tender without assigning any reason thereof.
23. GST will be paid to the tendered amount separately only for 2018-19 schedule of rates and for GST/VAT is included in other than 2018-19 schedule of Rates.
24. As per Government Circular No. CI 81 MMN 2014 Dt: 18.02.2014 & ಗಭೂಇ:ಡಿಸಿಬಿ/ಕಗಗು/ರಾ.ಪ.ಕೋ/2013-14 ದಿನಾಂಕ: 13.03.2014 the contractors are liable to pay royalty in terms of the contract if they are not able to produce the materials purchased document / MDP's from where they purchase.
25. Black Listed Contractors / in Govt. / Quasi Govt. / Boards / BBMP etc., are not eligible to quote, if found such Tenders will be rejected.
26. All the participants should produce all the original documents for verification whenever necessary.
27. The work shall be carried out as per the directions of the BBMP and if necessary, in coordination with BESCOM, BWSSB, Other Utility Agencies and Engineer in charge of Work.
28. No Joint Venture / Consortium is permissible.
29. The Work shall be commenced with all Men and Machinery within 7 days from the Date of Work Order, failing which it would be presumed that the Successful Tenderer is not interested in the Work and Action will be taken to get the Work executed through Alternate Agency at the risk and cost of the Former Tenderers.
30. Conditional Tenders will not be entertained and they are summarily rejected.
31. Further particulars can be had from the office of the Executive Engineer, Yelahanka Division, and BBMP during the working days between 10.00 A.M. to 5.30 P.M.
32. The Construction Debris Generated from Work Shall be dumped in Designated Dumping Yards Only.
33. If the Contractor has any liability whatsoever to the BBMP / Govt the same will be deducted from the Contractors bills.
34. Bidder shall submit the bids electronically before the stipulated date and time for the submission published in e-procurement portal. No tenders can be submitted after the due date and time as the portal will not accept late tenders.
35. The contractor / supplier can modify and correct or upload any other relevant document in the portal before last date and time of submission on e-portal. No modifications or withdrawal of tender is possible the closing time of the submission of the tender.
36. In the event of the specified date of tender opening being declared a holiday for the tender inviting authority, the tenders will be opened the next immediate working day.
37. As per Commissioner inter Office Note No:D/ಪಆರ್/1629/18-19 Dated:18-08-2018. The Contractors to Implement/Entrusted the works in ~~3~~ shifts round the clock.
38. Bidders Should Submit the **one set of Hard Copy with spiral Binding of all documents which are uploaded in the e-portal to this office before opening the technical bid.** Otherwise, their bid will be rejected.
39. The Bidder /Contractors should shall not Quote below the minimum labor rates prevailing @ the time of Tender Notification. If so, they shall be providing the Rate Analyses for the same. (To be uploaded in e-procurement plat form).

Sd/-
Executive Engineer
Yelahanka Division

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A. General

1. **Scope of Tender**

1.1 **The Executive Engineer, Yelahanka Division, BBMP** (Referred to as Employer in these documents) invites tenders following Two Cover tender procedure, from eligible Tenderers, for the construction of works (as defined in these documents and referred to as "the works") detailed in the Table given in the Invitation for Tenders (IFT). The Tenderers may submit tenders for any or all of the works detailed in the table given in IFT.

2. **Eligible Tenderer's:**

2.1 Tenderers shall not be under a declaration of ineligibility for corrupt and fraudulent practices issued by the Government of Karnataka / BBMP

2.2 **Tenders from Joint ventures are not acceptable.**

3. **Qualification of the Tenderer:**

3.1 All Tenderers shall provide the requested information accurately and in sufficient detail in Section 3: Qualification information

3.2 To qualify for award of this contract, each Tenderer in its name should have in the last five years (i.e. 2017-18 to 2021-22)

(a) achieved in at least two financial years a minimum financial turnover (in all classes of civil engineering construction works only) of **Rs.17.50 Crores**

(b) satisfactorily completed (at least 50% of the contract value) as prime contractor, at least one similar work such as Improvements of Roads and Drains of value not less than **Rs.500 Lakhs**

(c) executed in any one year, the following minimum quantities of work:[1]

Sl. No	Description	Unit	Quantity
1	Earthwork excavation	Cum	6650
2	PCC/RCC	Cum	4320
3	TMT Steel	Tonne	75
4	Pre Cast Covering Slabs	Sqm	2440
5	Pre Cast Kerb Stone	Nos	4670
6	M30	Cum	210
7	BM & BC	Cum	830
8	Wet Mix Macadam/GSB	Cum	610

Note: Certified Contractors Bill Copies shall be uploaded (Admitted Bill Copies)

(d) The Tenderer or his identified sub-contractor should possess required valid electrical license for executing building electrification works and should have executed similar electrical works totaling Rs. ..... *(usually not less than 50% of the electrical works)** in any one year;[2]

(e) The Tenderer or his identified sub-contractor should possess valid license for executing water supply/sanitary engineering works and should have executed similar water supply/sanitary engineering works totaling Rs..... *(usually not less than 50% of the water supply/sanitary engineering works)** in any one year;[3]

3.3 Each Tenderer should further demonstrate:

[1] Specify the principal items of works to be executed under this contract
[2] This is for building works. Appropriately change for other works.
[3] This is for Building works. Appropriately change for other works.

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As per Circular: PWD:15:ITC:2008/2009 Dated:02-12-2010 the Tenderer shall submit the ORIGINAL BG/FDR for Part EMD on or before the Opening of Technical Bid, if failed to submit, the bid will be rejected and the initial amount deposited through e-procurement will be forfeited and further their names will be proposed for Black Listing if resorted repeatedly.

13.2 Instruments having fixed validity issued as earnest money deposit for the tender shall be valid for 45 days beyond the validity of the tender.

13.3 Any tender not accompanied by an acceptable earnest money deposit and not secured as indicated in Sub-Clauses 13.1 and 13.2 above shall be rejected by the Employer as non-responsive.

13.4 The earnest money deposit of unsuccessful Tenderers will be returned within 30 days of the end of the tender validity period specified in Sub-Clause 12.1.

13.5 The earnest money deposit of the successful Tenderer will be discharged when the Tenderer has signed the Agreement and furnished the required Performance Security.

13.6 The earnest money deposit may be forfeited

(a) if the Tenderer withdraws the Tender after tender opening during the period of tender validity;

(b) if the Tenderer does not accept the correction of the Tender Price, pursuant to Clause 24; or

(c) in the case of a successful Tenderer, if the Tenderer fails within the specified time limit to

(i) Sign the Agreement; or

(ii) Furnish the required Security deposit

14. Format and signing of Tender

14.1 The Tenderer shall prepare one original and a copy of the documents comprising the Tender as described in Clause 10 of these *Instructions to Tenderers*, and clearly marked **"ORIGINAL"** and **"COPY"** as appropriate. In the event of discrepancy between them, the original shall prevail.

14.2 The original and a copy of the Tender shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the Tenderer. All pages of the tender where entries or amendments have been made shall be initialed by the person signing the tender

14.3 The Tender shall contain no alterations or additions, except those to comply with instructions issued by the Employer, or as necessary to correct errors made by the Tenderer, in which case such corrections shall be initialed by the person signing the Tender

D. Submission of Tenders

15. Sealing and marking of tenders

15.1 The Tenderer shall seal the original and a copy of the Tender in separate envelopes, duly marking the envelopes as **"ORIGINAL"** and **"COPY"**. These envelopes (called as inner envelopes) shall then be put inside one outer envelope.

15.2 The inner and outer envelopes shall

(a) be addressed to the Employer at the following address:

Office of the Executive Engineer
Yelahanka Division
CMC Road, Yelahanka old town Bangalore – 560064.

(insert address of office for Tender submission), and

(b) bear the following identification:

- Tender for ..... [name of contract]
- Tender Reference No..... [insert number]
- DO NOT OPEN BEFORE..... [time and date for tender opening, per Clause 19]

15.3 In addition to the identification required in Sub-Clause 15.2, the inner envelopes shall indicate the name and address of the Tenderer to enable the tender to be returned unopened in case it is declared late, pursuant to Clause 17.

15.4 If the outer envelope is not sealed and marked as above, the Employer will assume no responsibility for the misplacement or premature opening of the Tender.

Note:-

1. The Tenderer shall access Tender Documents, fill them and submit the Completed Tender Document as stated in Clause 10 through Website of e – Procurement itself (www.eproc.karnataka.gov.in). The

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19.4 The Employer shall prepare minutes of the Tender opening, including the information disclosed to those present in accordance with Sub-Clause 19.3.

19.5 The Second Cover of all the Tenderers including modifications for Second Cover shall be placed in a large cover and securely sealed in the presence of the tenderers or their representatives, who are present and also get the same signed by all those tenderers or their representatives. The large cover shall be kept in safe custody by the Employer.[4]

19.6 The Employer will evaluate and determine whether each tender (a) meets the eligibility criteria defined in ITT Clause 2; (b) is accompanied by the required earnest money deposit as per stipulations in ITT Clause and (c) meets the minimum qualification criteria stipulated in ITT Clause 3. The Employer will draw out a list of qualified Tenderers.[5]

20.1 The Employer will inform all the Qualified Tenderers the time, date and venue fixed for the opening of the Second Cover containing the priced Tenders. The Employer will open the Second Covers of Qualified Tenderers at the appointed time and date in the presence of the Tenders or their representatives who choose to attend. In the event of the specified date of Second Cover opening being declared a holiday for the Employer, the Second Covers will be opened at the appointed time and location on the next working day.

20.2 Envelopes marked **"MODIFICATION FOR SECOND COVER"** shall be opened and the submissions therein read out in appropriate detail.

20.3 The Tenderers' names, the Tender prices, the total amount of each Tender, any discounts, Tender modifications and withdrawals, and such other details as the Employer may consider appropriate, will be announced by the Employer at the opening. No Tender shall be rejected at Tender opening.

20.4 The Employer shall prepare minutes of the Second Cover Tender opening, including, the information disclosed to those present in accordance with Sub-Clause 20.3.

21. Process to be confidential

21.1 Information relating to the examination, clarification, evaluation, and comparison of Tenders and recommendations for the award of a contract shall not be disclosed to Tenderers or any other persons not officially concerned with such process until the award to the successful Tenderer has been announced. Any effort by a Tenderer to influence the Employer's processing of Tenders or award decisions may result in the rejection of his Tender.

22 Clarification of Tenders

22.1 To assist in the examination, evaluation, and comparison of Tenders, the Employer may, at his discretion, ask any Tenderer for clarification of his Tender, including breakdowns of unit rates. The request for clarification and the response shall be in writing or by cable, but no change in the price or substance of the Tender shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the Tenders in accordance with Clause 24.

22.2 Subject to sub-clause 22.1, no Tenderer shall contact the Employer on any matter relating to its Tender from the time of the Tender opening to the time the contract is awarded. If the Tenderer wishes to bring additional information to the notice of the Employer, it should do so in writing.

22.3 Any effort by the Tenderer to influence the Employer in the Employer's Tender evaluation, Tender comparison or contract award decisions may result in the rejection of the Tenderers' Tender.

23. Examination of Tenders and determination of responsiveness

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[4] **Refer GOK circular No. PWD 1359 SO/FC 2001 (P-2) dated 30th June 2003.**

[5] The evaluation of the technical aspects contained in the first cover should be completed within a reasonable period and the time gap between the opening of the first and second cover should be the minimum and in any case not more than 45 days {In exceptional cases, approval of the Secretary to the Government of the concerned Department/Managing Director of the Corporation shall be obtained, where the period is more than 45 days but less than 60 days. If it exceeds 60 days the tenders shall be re-invited.

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26.1 Subject to Clause 27, the Employer will award the Contract to the Tenderer whose Tender has been determined to be substantially responsive to the Tender documents and who has offered the lowest evaluated Tender Price, provided that such Tenderer has been determined to be (a) eligible in accordance with the provisions of Clause 2, and (b) qualified in accordance with the provisions of Clause 3.

27. Employer's right to accept any Tender and to reject any or all Tenders

27.1 Notwithstanding Clause 26, the Employer reserves the right to accept or reject any Tender, and to cancel the Tender process and reject all Tenders, at any time prior to the award of Contract, without thereby incurring any liability to the affected Tenderer or Tenderers or any obligation to inform the affected Tenderer or Tenderers of the grounds for the Employer's action.

28. Notification of award and signing of Agreement

28.1 The Tenderer whose Tender has been accepted will be notified of the award by the Employer prior to expiration of the Tender validity period by cable, telex, e-mail or facsimile confirmed by registered letter. This letter (hereinafter and in the *Conditions of Contract* called the "Letter of Acceptance") will state the sum that the Employer will pay the Contractor in consideration of the execution, completion, and maintenance of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price").

28.2 The notification of award will constitute the formation of the Contract, subject only to the furnishing of Security deposit in accordance with the provisions of Clause 29.

28.3 The Agreement will incorporate all agreements between the Employer and the successful Tenderer. It will be kept ready for signature of the successful Tenderer in the office of Employer within 30 days following the notification of award along with the Letter of Acceptance. Within 20 days of receipt, the successful Tenderer will sign the Agreement and deliver it to the Employer.

28.4 Upon the furnishing by the successful Tenderer of the Performance Security, the Employer will promptly notify the other Tenderers that their Tenders have been unsuccessful.

29. Security deposit

29.1 Within 20 days of receipt of the Letter of Acceptance, the successful Tenderer shall deliver to the Employer a Security deposit in any of the forms given below for an amount equivalent to 3% of the Contract price plus additional security for unbalanced tenders in accordance with Clause 25.5 of ITT and Clause 44 of the Conditions of Contract for all works.

- Banker's cheque/Demand draft/Pay Order in favour of Commissioner BBMP payable at Bangalore or
- **A Bank Guarantee in the form given in Section 10; or**
- **Special Small savings instruments pledged to Commissioner, BBMP / Executive Engineer – Yelahanka Division, BBMP**

29.2 If the security deposit is provided by the successful Tenderer in the form of a Bank Guarantee, it shall be issued either by a Nationalized/Scheduled bank

29.3 The security deposit if furnished in cash or demand draft can, if requested, be converted to interest bearing securities at the cost of the contractor.

29.4 Failure of the successful Tenderer to comply with the requirements of Sub-Clause 29.1 shall constitute sufficient grounds for cancellation of the award and forfeiture of the Earnest money deposit.

30 Advance Payment and Security:

31. Corrupt or Fraudulent practices

31.1 The BBMP requires that the Tenderers/Suppliers/Contractors, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, BBMP:

(a) will reject a proposal for award if it determines that the Tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;

(b) will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a BBMP contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing, a BBMP contract.

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			of • Employer			(Rs. lakhs) Attach Certificates from Engineers –in-Charge	
1	2	3	4	5	6	7	8

(B) Works for which Tenders already submitted

Description of Work	Place & State	Name and Address of Employer	Estimated value of works (Rs. lakhs)	Stipulated period of completion	Date when decision is expected	Remarks if any
1	2	3	4	5	6	7

1.6. The following items of equipment are considered essential for successfully carrying out the works. The Tenderer should furnish all the information listed below.

Item of Equipment	Requirement[8]		Owned	Owned and available		
	No.	Capacity		Number/ Capacity	Age/ condition	Remarks

1.7 Reports on the financial standing of the tenderer, such as profit and loss statements and auditor's reports for the last five years;

1.8 Qualification and experience of the key technical and management personnel in permanent employment with the tenderer and those that are proposed to be deployed on this contract, if awarded.

1.9. Name, address, and telephone, telex, and fax numbers of the Tenderers' bankers who may provide references if contacted by the Employer.

1.10 Evidence of access to financial resources to meet the qualification requirement specified in ITT Clause3.3 (b): Cash in hand, Letter of Credit etc. List them below and attach certificate from the Banker in the suggested format as under:

BANKER'S CERTIFICATE

This is to certify that M/s. ..... is a reputed company with a good financial standing. If the contract for this work, namely ..... *(name of the work)* is awarded to the above firm, we shall be able to provide overdraft/credit facilities to the extent of Rs. ..... to meet the working capital requirements for executing the above contract

Name of the Bank, Senior Bank Manger with Signature

Address:.....

1.11 Proposals for subcontracting components of works amounting to more than 20% of the contract price.

Item of Work	Value of Sub-Contract	Identified Sub-Contractor (Name and address)	Experience of similar work (Attach certificates from the respective Employers.)
1	2	3	4

1.12 Information on litigations in which the Tenderer is involved:

Other Party (ies)	Employer	Details of dispute	Amount involved	Remarks showing present status

[8] The item of equipment, required number and capacity should match with those specified in ITT Clause 3.3

(a)
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Letter of Acceptance

(letterhead paper of the Employer) ..... [date]

To

.....

.....[name and address of the Contractor]

Dear Sirs,

This is to notify you that your Tender dated ..... for execution of the .....

..... *[name of the contract and identification number, as given in the Instructions to Tenderers]* for the Contract Price of Rupees .....

..... (.....) [amount in words and figures], as corrected and modified in accordance with the Instructions to Tenderers is hereby accepted by our Agency.

You are hereby requested to furnish Security deposit plus additional security for unbalanced tenders in terms of Clause 25.5 of ITT, in the form detailed in Clause 29.1 of ITT for an amount of Rs..... within 20 days of the receipt of this letter of acceptance valid up to 30 days from the date of expiry of Defects Liability Period i.e. up to ..... and sign the contract, failing which action as stated in Para 29.4 of ITT will be taken.

Yours faithfully,

Authorized Signature

Name and Title of Signatory

Name of Agency

Issue of Notice to proceed with the work

(letterhead of the Employer) .....(date)

To

.....

.....

..... (name and address of the Contractor)

.....

Dear Sirs:

Pursuant to your furnishing the requisite security deposit as stipulated in ITT Clause 29.1 and signing of the contract agreement for the construction of ..... (name of the work) a Tender Price of Rs..... , you are hereby instructed to proceed with the execution of the said works in accordance with the contract documents.

Yours faithfully,

(Signature, name and title of signatory authorized to sign on behalf of Employer)

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SECTION 5: CONDITIONS OF CONTRACT

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2.1 In interpreting these Conditions of Contract, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Employer will provide instructions clarifying queries about the Conditions of Contract.

2.2 The documents forming the Contract shall be interpreted in the following order of priority:

(1) Agreement
(2) Letter of Acceptance, notice to proceed with the works
(3) Contractor's Tender
(4) Contract Data
(5) Conditions of Contract
(6) Specifications
(7) Drawings
(8) Bill of quantities and
(9) any other document listed in the Contract Data as forming part of the Contract.

3. Law governing contract

3.1 The law governing the Contract is the Laws of India supplanted by the Karnataka Local Acts.

4. Employer's decisions

4.1 Except where otherwise specifically stated, the Employer will decide contractual matters between the Employer and the Contractor.

5. Delegation

5.1 The Employer may delegate any of his duties and responsibilities to other people after notifying the Contractor and may cancel any delegation after notifying the Contractor.

6. Communications

6.1 Communications between parties which are referred to in the conditions are effective only when in writing. A notice shall be effective only when it is delivered (in terms of Indian Contract Act).

7. Subcontracting (Deleted)

7.1. Deleted.

8. Other Contractors

8.1 The Contractor shall cooperate and share the Site with other contractors, public authorities, utilities, and the Employer.

9. Personnel

9.1 The Contractor shall employ the technical personnel (of number and qualifications) as may be stipulated by GOK from time to time during the execution of the work. The technical staff so employed shall be available at site as may be stipulated by the Employer.

9.2 If the Employer asks the Contractor to remove a person who is a member of the Contractor's staff or his work force stating the reasons, the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the work in the Contract.

10. Employer's and Contractor's risks

10.1 The Employer carries the risks which this Contract states are Employer's risks, and the Contractor carries the risks which this Contract states are Contractor's risks.

11. Employer's risks

11.1 The Employer is responsible for the excepted risks which are:

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18. Approval by the Employer:

18.1 The Contractor shall submit Specification and drawings showing the proposed Temporary Works to the Employer, who is to approve them if they comply with the Specifications and Drawings.

18.2 The Contractor shall be responsible for the design of Temporary Works

18.3 The Employer's approval shall not alter the Contractor's responsibility for design of the Temporary Works.

18.4 The Contractor shall obtain approval of third parties to the design of third parties to the design of the temporary Works where required.

18.5 All Drawings prepared by the Contractor for the execution of the temporary or permanent Works, are subject to prior approval by the Employer before their use.

19. Safety

19.1 The Contractor shall be responsible for the safety of all activities on the Site.

20. Discoveries

20.1 Anything of historical or other interest or of significant value unexpectedly discovered on the Site is the property of the Employer. The Contractor is to notify the Employer of such discoveries and carry out the Employer's instructions for dealing with them.

21. Possession of the Site

21.1 The Employer shall give possession of all parts of the Site to the Contractor. If possession of a part is not given by the date stated in the Contract Data the Employer is deemed to have delayed the start of the relevant activities and this will be Compensation Event.

22. Access to the Site

22.1 The Contractor shall allow the Employer and any person authorized by the Employer access to the Site, to any place where work in connection with the Contract is being carried out or is intended to be carried out and to any place where materials or plant are being manufactured / fabricated / assembled for the works.

23. Instructions

23.1 The Contractor shall carry out all instructions of the Employer which comply with the applicable laws where the Site is located.

24. Procedure for resolution of Disputes:

24.1 If the Contractor is not satisfied with the decision taken by the Employer, the dispute shall be referred by either party to Arbitration within 30 days of the notification of the Employer's decision.

24.2 If neither party refers the dispute to Arbitration within the above 30 days, the Employer's decision will be final and binding.

24.3 The Arbitration shall be conducted in accordance with the arbitration procedure stated in the Special Conditions of Contract.

B. Time Control

25. Program

25.1 Within the time stated in the Contract Data the Contractor shall submit to the Employer for approval a Program showing the general methods, arrangements, order, and timing for all the activities in the Works.

25.2 The Employer's approval of the Program shall not alter the Contractor's obligations. The Contractor may revise the Program and submit it to the Employer again at any time. A revised Program is to show the effect of Variations and Compensation Events.

26. Extension of the Intended Completion Date

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(d) Change the levels, lines, positions and dimensions of any part of the work.
(e) Execute additional items of work of any kind necessary for the completion of the works; and
(f) Change in any specified sequence, methods or timing of construction of any part of the work.

34.2 The Contractor shall be bound to carry out the work in accordance with any instructions in this connection, which may be given to him in writing by the Employer and such alteration shall not vitiate or invalidate the contract.

34.3 Variations shall not be made by the Contractor without an order in writing by the Employer, provided that no order in writing shall be required for increase or decrease in the quantity of an item appearing in the BOQ so long as the work executed conforms to the approved drawings.

34.4 The Contractor shall promptly request in writing to the Employer to confirm verbal orders and the officer issuing oral instructions shall confirm it in writing within 30 days, failing which the work shall be carried out as though there is no variation. In case variation is approved it shall be accompanied by BOQ, failing which the contractor shall be responsible for deviation if any. Further, approval of Govt. / BBMP has to be obtained for the variation exceeding 5%.

35. Payments for Variations

35.1 Payment for increase in the quantities of an item in the BOQ up to 25% of that provided in the Bill of Quantities shall be made at the rates quoted by the Contractor.

35.2 For quantities in excess of 125% of the tendered quantity of an item as given in the BOQ, the Contractor shall be paid at the rate entered in or derived from in the Schedule of Rates (applicable for the area of the work and current at the time of award of contract) plus or minus the overall percentage of the original tendered rates over the current Schedule of Rates prevalent at the time of award of contract.

35.3 If there is no rate for the additional, substituted or altered item of the work in the BOQ, efforts would be made to derive the rates from those given in the BOQ or the Schedule of Rates (applicable for the area of the work and current at the time of award of contract) and if found feasible the payment would be made at the derived rate for the item plus or minus the overall percentage of the original tendered rates over the current Schedule of Rates prevalent at the time of award of contract

35.4 If the rates for additional, substituted or altered item of work cannot be determined either as at 35.1 or 35.2 or 35.3 above, the Contractor shall be requested to submit his quotation for the items supported by analysis of the rate or rates claimed, within 7 days.

35.5 If the Contractor's quotation is determined unreasonable, the Employer may order the Variation and make a change to the Contract Price which shall be based on Employer's own forecast of the effects of the Variation on the Contractor's costs.

35.6 If the Employer decides that the urgency of varying the work would prevent a quotation being given and considered without delaying the work, no quotation shall be given and the Variation shall be treated as a Compensation Event.

35.7 Under no circumstances the Contractor shall suspend the work on the plea of non-settlement of rates for items falling under this Clause.

36. Submission of bills for payment

36.1 The Contractor shall submit to the Employer monthly bills of the value of the work completed less the cumulative amount paid previously.

36.2 The Employer shall check the Contractor's bill and determine the value of the work executed which shall comprise of (i) value of the quantities of the items in the BOQ completed and (ii) valuation of Variations and Compensation Events.

36.3 The Employer may exclude any item paid in a previous bill or reduce the proportion of any item previously paid in the light of later information.

37. Payments

37.1 Payments shall be adjusted for deductions for advance payments other than recoveries in terms of contract and taxes, at source, as applicable under the law. The Employer shall pay the Contractor the within 60 days of submission of bill. The contractor shall be liable to pay liquidated damages for shortfall in progress. For progress beyond the agreed programme payment is subject to availability of the grants.

37.2 Items of the Works for which no rate or price has been entered in will not be paid for by the Employer and shall be deemed covered by other rates and prices in the Contract.

38. Compensation events

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the milestone as stated in the Contract Data). The total amount of liquidated damages shall not exceed the amount defined in the Contract Data. The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages does not affect the Contractor's liabilities.

41.2 If the Intended Completion Date is extended after liquidated damages have been paid, the Employer shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment of bill.

42. **Advance Payments:** Refer Section 6: Contract Data

43. **Securities:**

43.1 The Security deposit (including additional security for unbalanced tenders) shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form and type of instrument acceptable to the Employer. The Security deposit shall be valid until a date 30 days from the date of expiry of Defects Liability Period and the additional security for unbalanced tenders shall be valid until a date 30 days from the date of issue of the certificate of completion.

44. **Cost of Repairs:**

44.1 Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Correction periods shall be remedied by the Contractor at the Contractor's cost if the loss or damage arises from the Contractor's acts or omissions.

E. Finishing the Contract

45. **Completion**

45.1 The Contractor shall request the Employer to issue a Certificate of Completion of the Works and the Employer will do so upon deciding that the Work is completed.

46. **Taking over**

46.1 The Employer shall take over the Site and the Works within seven days of issuing a certificate of Completion.

47. **Final account**

47.1 The Contractor shall supply to the Employer a detailed account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Employer shall issue a Defect Liability Certificate and certify any final payment that is due to the Contractor within 90 days of receiving the Contractor's account if it is correct and complete. If it is not, the Employer shall issue within 90 days a schedule that states the scope of the corrections or additions that are necessary. If the Final Account is still unsatisfactory after it has been resubmitted, the Employer shall decide on the amount payable to the Contractor and make payment within 60 days of receiving the Contractor's revised account.

48. **As built drawings and /or Operating and Maintenance Manuals**

48.1 If "as built" (*Completion drawings*) Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in the Contract Data.

48.2 If the Contractor does not supply the Drawings by the dates stated in the Contract Data, or they do not receive the Employer's approval, the Employer shall withhold the amount stated in the Contract Data from payments due to the Contractor.

49. **Termination**

49.1 The Employer may terminate the Contract if the other party causes a fundamental breach of the Contract.

49.2 Fundamental breaches of Contract include, but shall not be limited to the following:

(a) The Contractor stops work for 45 days when no stoppage of work is shown on the current Program and the stoppage has not been authorized by the Employer;

(b) Deleted.

(c) The Contractor becomes bankrupt or goes into liquidation other than for a reconstruction or amalgamation;

(d) Deleted

(e) the Employer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Employer;

(f) The Contractor does not maintain a security which is required;

(g) the Contractor has delayed the completion of works by the number of days for which the maximum amount of liquidated damages can be paid as defined in the Contract data; and

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During continuance of the contract, the Contractor shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of the State or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be passed or notification that may be issued under any labour law in future either by the State or the Central Government or the local authority. The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made there under, regulations or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/bye laws/Acts/Rules/regulations including amendments, if any, on the part of the Contractor, Employer shall have the right to deduct any money due to the Contractor including his amount of security deposit. The Employer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer.

The employees of the Contractor in no case shall be treated as the employees of the Employer at any point of time

3. **Protection of Environment:**

The contractor shall take all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods of operation. During continuance of the contract, the contractor shall abide at all times by all existing enactments on environmental protection and rules made there under, regulations, notifications and bye-laws of the State or Central Government, or local authorities and any other law, bye-law, regulations that may be passed or notification that may be issued in this respect in future by the State or Central Government or the local authority.

4. **Arbitration (Clause 24)**

4.1 The procedure for arbitration shall be as follows:

(a) In case of dispute or difference arising between the Employer and the Contractor relating to any matter arising out of or connected with this agreement it shall be settled in accordance with the Arbitration and Conciliation Act 1996. The disputes or differences shall be referred to a Sole Arbitrator. The Sole Arbitrator shall be appointed by agreement between the parties; failing such agreement, by the Appointing Authority (any one of the Organizations as per list enclosed in Annexure)

(b) Arbitration proceedings shall be held at..... Karnataka state (to be filled in by the Employer before issue of the Tender Documents).

(c) The cost and expenses of arbitration proceedings will be paid as determined by the Arbitrator. However the expenses incurred by each party in connection with the preparation, presentation, etc., shall be borne by each party itself.

5. In the case of the death of a Contractor after executing the agreement / commencement of the work, his legal heir, if an eligible registered Contractor and willing can execute and complete the work at the accepted tender rates irrespective of the cost of the work.

6. The Contractor should produce invoice for procurement of Bitumen, Steel, HDPE ducts, Geo-textile material along with bills. No payments will be made without such invoices.

7. Mix Designs for Concrete and Asphalt work should be got approved by Chief Engineer before commencement of Work.

8. 63/51 mm Double Walled Corrugated HDPE Duct should have the inner layer as silicore marking the duct manufacturer and also size of the duct. The Duct should conform to ISO Certification and the colour of duct should be orange or blue for better identity.

9. The Contractor shall provide One four wheeler along with driver, fuel expenses to Project Engineers in-charge of work to facilitate and co-ordinate the supervision of the work.

10. The Contractor shall establish field lab and field office to facilitate quality assurance of execution of works.

11. The hot mix plant unit should be within the radius of 40km from Vidhanasoudha, Bangalore

12. The availability of hot mix plant and ownership will be ascertained by physical inspection at the time of technical evaluation by the evaluation authority

13. GST Shall be Paid to the Tendered Amount Separately

14. Tenderer should have Registered with EPF and ESI authorities. Certification should be produced at the time of Tendering OR else being entering into the Agreement.

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Milestone dates:
Physical works to be completed Period from the date of issue of Notice to proceed with the work

Milestone 1 i.e Financial Progress for Rs.292.00 Lakhs within 02 Months from the date of work order (33%)
Milestone 2 i.e Financial Progress for Rs.585.00 Lakhs within 04 Months from the date of work order (66%)

Milestone 3 i.e Financial Progress for Rs.875.00 Lakhs within 06 Months from the date of work order (100%)

The Site Possession Date is:[13] **Date of work order** [21]

The Site is located at **Yelahanka Division Limits** [1 1]
and is defined in drawings

The Defects Liability Period is **3 Years** for roads asphalted with both BM/DBM and BC [14]. [31]
The Defects Liability Period is **1 Year** for roads asphalted with only BC [15].
The Defects Liability Period is **1 Year** for civil works

Insurance requirements are as under: [13]

	Type of Cover	Minimum cover for Insurance[16]
(i)	Works of Plant and materials	The sum stated in the Agreement plus 20%
(ii)	Loss or damage to equipment	Full replacement cost
(iii)	Loss or damage to property of Third Party	Full replacement cost
(iv)	Personal injury or death insurance (a) for Third Party[17]	
	(b) for Contractor's employees or labour	In accordance with the statutory requirements applicable to Karnataka

Price Adjustment Formula;[18] [40]

R= Value of work as defined in Clause 40.1 of Conditions of Contract.

Adjustment for labour component:

(i) Price adjustment for increase or decrease in the cost due to labour shall be paid in accordance with the following formula.

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[12] At the time of preparation of the tender document give the period required for completion of whole work and the milestones. When the Agreement is drawn after award of contract the dates can be put in.
[13] At the time of preparation of the tender document give the period after the issue of work order, when the site would be made available to the contractor, for example 'one week after the issue of work order'
[14] The period should depend up on the period required for testing of the work. In case of building it could be 12 months (passing of one rainy season); for pipe laying work, tanks, water retaining structures, the time required for testing; for canals, lining works, the passing of one monsoon or running of canal whichever is lower; roads and highways passing of one monsoon (12 months)
[15] The period should depend up on the period required for testing of the work. In case of building it could be 12 months (passing of one rainy season); for pipe laying work, tanks, water retaining structures, the time required for testing, for canals, lining works, the passing of one monsoon or running of canal whichever is lower; roads and highways passing of one monsoon (12 months)
[16] Employer to specify as per requirement. Exclusions if any should also be specified.
[17] Specify an appropriate figure. For normal works it could be Rs.20 lakhs to cover 4 persons @Rs.5 lakhs each.
[18] The Formula has some normal components. It should be changed if need be to suit the nature of the work.

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$V_B = 0.85 \times P_B/100 \times R \times (B_i - B_o)/B_o$, Where

V_B = Increase or decrease in the cost of work during the quarter under consideration due to changes in the rate for bitumen.

B_o = The official retail price of bitumen at the IOC /HPCL/BPL or any other depot at .....[23] on the day 30 days prior to the date of opening of Bids.

B_i = The official retail price of bitumen at the IOC/HPCL/BPL or any other depot at ..... for the 15th day of the middle calendar month of the quarter under consideration.

P_B = Percentage of bitumen component of the work.

Adjustment of Fuel and Lubricant component:

(v) Price adjustment for increase or decrease in cost of Fuel and Lubricants shall be paid in accordance with the following formula:

$V_F = 0.85 \times P_F/100 \times R \times (F_i - F_o)/F_o$, Where,

V_f = Increase or decrease in the cost of work during the quarter under consideration due to changes in the rates for Fuel and Lubricants.

F_o = The official retail price of High Speed Diesel (HSD) at the IOC/HPCL/BPL or other consumer pump at Bangalore on the day 30 days prior to the date of opening of Bids.

F_i = The official retail price of HSD at the IOC/HPCL/BPL or other consumer pump at Bangalore for the 15th day of the middle calendar month of the quarter under consideration.

P_F = Percentage of Fuel and Lubricant component of the work.

Note: For the application of this Clause the price of HSD[24] has been chosen to represent Fuel and Lubricant Group

Adjustment for Plant and Machinery Spares Component:

(vi) Price adjustment for increase or decrease in the cost of plant and machinery spares procured by the contractor shall be paid in accordance with the following formula:

$V_P = 0.85 \times P_P/100 \times R \times (P_i - P_o)/P_o$, Where

V_P = Increase or decrease in the cost of work during the quarter under consideration due to changes in the rates for plant and machinery spares.

P_o = The all India average wholesale price index for Heavy machinery and parts for the quarter preceding the date of opening of bids, as published by the Office of the Economic Advisor, Ministry of Commerce and Industry, Government of India, New Delhi

P_i = The all India average wholesale price index for Heavy machinery and parts for the quarter under consideration as published by the Office of the Economic Advisor, Ministry of Commerce and Industry, Government of India, New Delhi

P_B = Percentage of Plant and Machinery Spares component of the work.

Note: For the application of this Clause index of Heavy Machinery and Parts[25] has been chosen to represent the Plant and Machinery Spares Group.

Adjustment for Other materials:

(vii) Price adjustment for increase or decrease in the cost of other materials other than cement, steel, bitumen and Fuel and Lubricants[26], procured by the contractor shall be paid in accordance with the following formula:

$V_M = 0.85 \times P_M/100 \times R \times (M_i - M_o)/M_o$, Where

[23] Insert the nearest location of POL Depot
[24] This could be appropriately changed to any other item depending on the nature of work.
[25] This could be appropriately changed to any other item depending on the nature of the work.
[26] Add, delete or change depending on the nature of work.

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advance, whichever period concludes earlier, and shall be made at the rate of 7.5% percent of the amounts of all Interim Payment Certificates until such time as the loan has ~~been~~ repaid, always provided that the loan shall be completely repaid prior to the expiry of the original time for completion pursuant to Clauses 17 and 26.

[34]The date by which "as-built"[35] **drawings (in scale 1:1000**[36]**)** in 2 sets are required is within 30 days of issue of certificate of completion of Whole or Section of the Work as the case may be. [48]

[37]The date by which Operating and Maintenance Manuals are required is within 30 days of issue of certificate of completion of Whole or Section of the Work as the case may be.

The amount to be withheld for failing to supply "as built" drawings or supply of Operation and Maintenance Manuals by the date required is **Rs 1,00,000/-**

(The amount should be sufficient to get the completion drawings or Operating and Maintenance Manuals prepared by alternative agency in case the contractor fails to submit.) [48]

The following events shall also be fundamental breach of the contract: [49.2]

1. The contractor has contravened Sub-clause 7.1 and Clause 9 of CC.

The percentage to apply to the value of the work not completed representing the Employer's Additional cost for completing the Works shall be 30 percent (30%) . [50.1]

(Change if need be. It should be sufficient to get the balance of works completed by alternative agency.)

SECTION 7: SPECIFICATIONS

As per specifications mentioned in BOQ

[34] Score out is not applicable.
[35] Completion drawings
[36] Specify an appropriate scale
[37] Score out which ever is not applicable.

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9	Providing and fixing precast reinforced cement concrete covering slabs of 10cm thick made of M20 with OPC cement,with 20mm and down size graded granite metal coarse aggregate @0.70 mixed, Inculding providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and lift, HOM of machinery, curing, including cost of reinforcement etc., complete as directed by the Engineer in charge of the work (Data Rate)	Sqm	3072.68		
10	Providing and fixing RCC precast cover slab of 230mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate).	Sqm	79.00		
11	Providing and fixing pre cast solid cement concrete kerb stones made out of M20 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete as directed by the Engineer in Charge of the work (Approved Rate)	No's	7867.00		
12	Painting.two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces (V-III No-8.10,P No-56 of PWD BCSR 2021-22)	Sqm	2301.95		
13	Construction of Median and Island above road level with approved material deposited at site from roadway cutting and excavation for drain and foundation of other structures, spread, graded and compacted as per clause 408 (V-3,P.No.25, I.No.4.29 of PW, P&IWTD S.R 2021-22)	cum	106.80		
14	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per m2 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level , including cost of materials, labour and Usage charges of machinery complete as per specifications. (V-2,P.No.64, I.No.9.31 of PW, P&IWTD S.R 2021-22)	Sqm	5292.50		
15	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work (V-I, P.No-8, I No-1.12)	Cum	1648.35		
16	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density (V-III No-4.27 A,P No-24 of PWD BCSR 2021-22)	Cum	531.70		
17	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. (V-III No-5.1 A,P No-29 of PWD BCSR 2021-22)	Sqm	2431.00		

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18	Providing and applying tack coat with RS1 Bituminous Emulsion using emulsion pressure distributor at the rate of 0.20-kg/m2 on the prepared bituminous surface cleaned with mechanical broom (V-III No-5.3.P No-29 of PWD BCSR 2021-22)	Sqm	19284.20	
19	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects (V-III No-5.12 C ,P No-33 of PWD BCSR 2021-22)	cum	201.53	
20	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects.(V-III, P No.36, I No 5.16C of PWD SR 2021-22)	Cum	610.15	
21	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes (V-III No-8.15,P No-57 of PWD BCSR 2021-22)	sqm	481.60	
22	Providing and laying in position plain cement concrete for levelling course for all works in foundation The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:5:10 Using 40 mm nominal size graded crushed coarse aggregates(V-I,I No-2.11, P No-15of KPWD SR 2021-22)	Cum	263.63	
23	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14-days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete, as per the directions of the Engineer-in-charge of the work.	Cum	263.63	
24	Cost of Haulage Excluding Loading,and Unloading Taking output 10 t load and lead 10 km = 100 t.km.	t.km	9028.83	

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25	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material to the appropriate disposal area as per direction of Engineer-in-charge Asbestos cement sheet	Cum	616.00		
26	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer-in-charge.In cement mortar(V-II, I.No 19.7.3, Page No-163 of PWD SR 2021-22)	Cum	312.35		
27	Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material to the appropriate disposal area as per direction of Engineer in-charge. In cement mortar (P.No.163, V-II, I.No.19.9.2 - of PWD SR 2021-22)	Cum	102.73		
28	Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenaces required to complete the work.In all kinds of soils Depth upto 3 m (I. No 1.14.1, P. No-8 of PWD & IWTD, Vol-1 SR 2021-22)	Cum	575.15		
29	Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenaces required to complete the work. In soft rock without blasting upto 1.5m depth (I. No 1.15.1, P. No-8 of PWD & IWTD, Vol-1 SR 2021-22)	Cum	246.49		
30	Providing and injecting chemical emulsion for Pre-constructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits with Chlorpyriphos 20% E.C. / Lindane 20% E.C. @3.19 l/m2 including cost of chemical, diluting in water to one percent concentration, labour, usage charges of machinery, complete as per specifications (I. No 4.1, P. No-5 of PWD & IWTD, Vol-2 SR 2021-22)	Sqm	705.37		
31	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates.	Cum	80.59		
32	Providing and laying in position Reinforced cement concrete for all Foundation works. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticizers laid in finished layers, well compacted using needle vibrators, including all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately). M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregate	Cum	228.42		

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	33	Providing Size Stone masonry with hard stone in foundation & plinth with Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	169.89
18	34	Providing Flush/ Ruled pointing. Pointing on stone work with cement mortar 1:3 (1 cement : 3 fine sand) after raking joints to depth nicely liming, including cost of materials, labour, curing as per specifications and as per directions of Engineer in charge.	Sqm	72.62
19	35	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m	Cum	342.65
	36	Supplying and filling in plinth with sand under floors, foundation of Bridges including watering, ramming, consolidating and dressing complete.	Cum	342.65
	37	Removal of Unserviceable Soil with Disposal upto a suitable distance as directed by the Engineer incharge of work	Cum	757.73
20	38	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, conforming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates	Cum	52.58
21				
22	39	Providing and laying in position Reinforced cement concrete for all Super structures of building, Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately). M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates.-Ground Floor (Column and Staircase)	Cum	30.61
	40	Terrace (Column)		
	41	Ground Floor (Roof Beam,Lintel beam and Slab)	Cum	5.51
23	42	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately). M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates.-Ground Floor (Sill concrete & Chejja)	Cum	154.23
			Cum	5.74
	43	Terrace (Parapet Wall)		
			Cum	2.72

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44	Providing Thermo-Mechanically Treated bars of grade Fe-500 or more Steel reinforcement for R.C.C. work including straightening,cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately)-Ground Floor	Kgs	36239.49		
45	Terrace	Kgs	0.88		
46	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. 8" Block	Sqm	645.49		
47	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x150x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications 6" Block -Ground Floor	Sqm	24.99		
48	Terrace	Sqm	163.04		
49	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. Extra for Plastering exterior walls of height more than 10m from ground level for every additional height of 3m or part thereof including cost of material, labour, scaffolding etc as per specifications and as per directions of the Engineer-in-charge. External Wall Plastering,-Ground Floor	Sqm	666.13		
50	Terrace	Sqm	163.04		
51	Providing 15 mm cement plaster with cement mortar 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement to brick/stone masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (Internal Wall Plastering)-Ground Floor	Sqm	1129.24		
52	Providing 12 mm cement plaster finished with a floating coat of neat cement of mix :1:3 (1 cement: 3 fine sand) to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (Internal Ceiling)-Ground Floor	Sqm	793.06		
53	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. Extra for Plastering on circular work not exceeding 6m in radius. In one coat including cost of material, labour, scaffolding etc as per specifications and as per directions of the Engineer-in-charge. External Circular Column Plastering-Ground Floor	Sqm	46.80		
54	Finishing walls with water proofing cement paint of required shade :New work (Two coats applied @ 4.84 kg/10 m²) to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-incharge. External wall painting-Ground Floor	Sqm	427.76		
55	Terrace	Sqm	97.82		

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56	Finishing walls with textured exterior paint of required shade: New work (Two coats applied @ 3.28 kg/10 m²) over and including priming coat of exterior primer applied @ 2.20 kg/10m2 to give an even shade after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-incharge. External wall painting-Ground Floor	Sqm	285.17
57	Terrace	Sqm	65.21
58	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer incharge. (Internal + Ceiling Painting)-Ground Floor	Sqm	1922.30
59	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :Two coats on new work after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge -Ground Floor	Sqm	1922.30
60	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ m2 including grouting the joints with white cement and matching pigments etc., complete Size of Tile 600x600 mm-Ground Floor	Sqm	608.26
61	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/m2 including pointing-Ground Floor	Sqm	38.32
62	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding -Ground Floor	Kgs	1839.60
63	Providing & fixing of 2 track x 2 panel sliding windows made out of multi chambered UPVC (Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 50mm width x 42mmheight with reinforcement of 1mm thickness and Sash with overall size of 31mm X 57mm with GI reinforcement of 1mm for the frame and 1.5 mm for the sash. Coextruded Glazing bead for fixing of glass shall be of size 21.5mm x 9.5 mm. Windows shall be provided with 5mm plain float glass, standard hardware& single point locking system with touch lock. Wall thickness of frame & sash shall be of 1.8+-0.2 mm. Maximum possible size – 1519mm x 1519mm. (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made)-Ground Floor	Sqm	84.00

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64	Providing & fixing of louvered ventilator made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free with gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the ventilator frame. The frame having overall size of 39mm x 39mm with GI reinforcement of 1mm thickness. Louver clip in Aluminium (powder coated in white) will be used on the frame along with plastic parts for fixing the 4 mm pin head glass. Wall thickness of frame shall be 2mm.Maximum possible size – 1000mm x 1000mm.(The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made)fixtures and separate charges for minor T&P's shall not be made)-Ground Floor	Total	3.60		
65	Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications. -Ground Floor	Sqm	0.74		
66	Providing and fixing in position fully panelled Mathi/Nandi wood shutters for doors with stiles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. (excluding cost of fixtures)-Ground Floor	Sqm	25.20		
67	Fixing of door frame in an existing opening including embedding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debris with lead upto 50 m. including cost of materials, labour charges, complete as per specifications.(V-II, I.No 12.51, Page No-105 of PWD SR 2021-22)-Ground Floor	No's	10.00		
68	Providing & fixing factory made PVC Door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet metered cut at corners & jointed 2 No.s of 150mm long brackets of 15x15mm M.S Square tube, the entire door frame to be reinforced with 19x19mm M.S Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size complete as per manufacturers specification & direction of Engineer-in-charge. -Ground Floor	Sqm	3.92		
69	Providing & fixing 30mm thick factory made rigid foam Panelled Door Shutters made from M.S. tube of 19 gauge thickness, size 19x19mm for stiles and 15x15mm for top & bottom rails, covered with heat moulded PVC C channel of 5mm thick sheet & 30 x 50mm wide to form stiles & 5mm thick & 75mm wide PVC Sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rail & bottom rail, Panelling of 5mm thick PVC sheet fitted in the M.S. Frame, Sealed to the stiles & rails with 5x30mm PVC sheet beading on either side & joined together with solvent cement adhesive etc., Complete as per manufacturers specification & direction of Engineer-in-charge fixed to frames with 3 nos of 75 mm Aluminium hinges.-Boys Toilet	Sqm	10.29		
70	Applying priming coat: With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood) including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.-Ground Floor	Sqm	55.44		

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71	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer. Using M.S. angels 40x40x6 mm for diagonal braces including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.-Boys Toilet	Sqm	2.52
72	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two coat applied @ 0.90 ltr/10 m² over an under coat of primer applied @ 0.80 ltr/10 m² of approved brand and manufacture including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge.-Boys Toilet	Sqm	5.54
73	Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The water proofing membrane to be applied in 2coats @ 1.6kg per m2 to achieve final DFT (dry film thickness) of 1mm including prime coat of epoxy primer @150 g per m2 and protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction joints completely as per specification & with a 10 years warranty on product & work from certified manufacturers as per the direction of the Engineer In charge.-Boys Toilet(Terrace)	Sqm	705.37
74	Providing & Fixing Fixtures Aluminum tower bolts	No's	24
75	Hold Fast	Each	54
76	SS Screws #8x19	Each	540
77	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:White Vitreous China Wash basin size 630x450 mm with a pair of 15mm C.P. brass pillar taps	Each	3.00
78	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	7.00
79	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : One urinal basin with 5 litre white P.V.C. automatic flushing cistern	Each	10.00
80	Providing and fixing brass stop cock of approved quality : 20 mm nominal bore	No's	20.00
81	Providing and fixing Brass full way valve gate with C.I. wheel of approved quality (screwed end) : 25 mm nominal bore.	Each	25.00
82	Providing and fixing Brass full way valve gate with C.I. wheel of approved quality (screwed end) : 25 mm nominal bore.	Each	6.00
83	Providing and fixing Brass full way valve gate with C.I. wheel of approved quality (screwed end) : 40 mm nominal bore.	Each	10.00

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84	Supplying and wiring adopting loop system in existing pvc conduit/casing caping using 1100v grade,COPPER conducter flexible multistrand FRLS PVCinsulated,2x1.5Sq mm Cable confirming to the GTP without switch,the other end of the wire shall be terminated with sufficient loose length in a wood/PVC round block complete for each outlet. (P.No.2 ,Item No 2.1 PWD Electrical SR-2022-23)-2.1.1)Short point upto 3Mtr from tapping point to out let via switch box	No's	10.00		
85	2.1.2)Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch box	No's	20.00		
86	2.1.3)Long point above 6Mtr upto 10Mtr from tapping point to out let via switch box	No's	6.00		
87	2.1.4)Two outlet in a row,above 3Mtr upto 6Mtr from tapping point to out let via switches	No's	2.00		
88	2.1.5)Three outlet in a row, above 6Mts upto 10Mtr from tapping point to out let via switches box	No's	2.00		
89	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall. (P.No.5 ,Item No 3.4 PWD Electrical SR-2022-23)-3.4.1) 1-3Way	Each	10.00		
90	3.4.2)4-5Way	Each	6.00		
91	3.4.3)6 Way	Each	4.00		
92	3.4.4)8Way	Each	6.00		
93	3.4.5) 10-12Way	Each	10.00		
94	Suppling and fixing PVC/metal conduit deep juction boxes (P.No.1 ,Item No 1.5 PWD Electrical SR-2022-23) -1.5.1)19/20mm deep juction box	Each	30.00		
95	1.5.2) 25mm deep juction box	Each	30.00		
96	1.5.3) 32mm deep juction box	Each	10.00		
97	1.12)Suplay and fixing Metal Fan Box with Round Hook	Each	20.00		
98	Supplying and mounting 2 nos of 2 way 6amps flush type switches either surface /flush mounted on exisinting gang box or in 4mm thick plastic sheet and mounted on a flush mounted wooden box and wiring as required . (P.No.5, Item No 3.2 PWD Electrical SR-2022-23)	Each	5.00		
99	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293. (P.No.5, Item No 3.6 PWD Electrical SR-2022-23)-3.6.1) 6A mps one way	Each	60.00		
100	3.6.2) 6A mps Two way	Each	10.00		
101	3.6.3) 6A mps 3way socket.	Each	20.00		
102	3.6.4) Stepped fan regulator.	Each	10.00		
103	3.6.8) 16A mps one way	Each	15.00		
104	3.6.11) 6/16A aps universal socket.	Each	2.00		
105	3.6.12) tv/telephone socket	Each	2.00		
106	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293. (P.No.5, Item No 3.6 PWD Electrical SR-2022-23) -3.6.3) 6A mps 3way socket.	Each	10.00		
107	3.6.4) Stepped fan regulator.	Each	5.00		
108	3.6.8) 16Amps one way switch	Each	14.00		
109	3.6.11) 6/16Amps univeral socket	Each	12.00		
110	Concealed Conduit System: Supplying .... Mm dia 2mm2.5mm Thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive paste etc... and running before concreting th eslab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be convered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary. (P.No.1, Item No 1.2 PWD Electrical SR-2022-23) -1.2.1) 19/20mm dia 2mm thik	Per Mtr	750.00		
111	1.2.2) 25mm dia 2mm thik	Per	1000.00		

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		Mtr	
112	1.2.3) 32mm dia 2.5mm thik	Per Mtr	45.00
113	Groove cutting Supplying .... Mm dia 2mm2.5mm Thick heavy gauge PVC conduit pipe with suitable size bends, metal/PVC junction boxes adhesive paste etc... by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary. (P.No.1, Item No 1.3 PWD Electrical SR-2022-23) -1.3.1) 19/20mm dia 2mm thik	Per Mtr	650.00
114	1.3.2) 25mm dia 2mm thik	Per Mtr	300.00
115	1.3.3) 32mm dia 2.5mm thik	Per Mtr	10.00
116	Wiring for lighting /power circuit using one of PVC insulated 1100v grade,multis and Copper conductor single core cable in open or consealed system of wiring. (P.No.3, Item No 2.3 PWD Electrical SR-2022-23) -2.3.2) 1.5 sqmm	Per Mtr	900.00
117	2.3.3) 2.5 sqmm	Per Mtr	1300.00
118	2.3.4) 4 sqmm	Per Mtr	600.00
119	2.3.3) 6 sqmm	Per Mtr	200.00
120	Supplying and fixing regular MCB distribution boards on wall/ woodboard /flush mounting required clamps,bolts,nuts etc. with provision for fixing suitable type capacity MCB's single phase /3 phase /single door with powder coated painting etc., complete. (P.No.13, Item No 5.18 PWD Electrical SR-2022-23) -5.18.8) 12Way SP & N	Each	1.00
121	5.18.9) 4Way TP & N	Each	1.00
122	Supplying and fixing and wiring Earth Leakage Miniature Circuit Breaker [ELMCB] 240/450V up 300mA sensitivity on exsiting wood/panel board (P.No.13, Item No 5.20 PWD Electrical SR-2022-23) -5.20.2)32-40 Amps 2 Pole	Each	1.00
123	5.20.3)32-40 Amps 4 Pole	Each	2.00
124	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and wiring complete as required.(P.No.13, Item No 5.17 PWD Electrical SR-2022-23) -5.17.1)6-32Amps SP	Each	20.00
125	5.17.4)6-32Amps DP	Each	3.00
126	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. Item No 6.3	Per Mtr	60.00
127	Supply an fixing of ...feet pvc batten with integrated led tube quality diffuser with life of 25000 burninng hours & 70% lumen maintance with CRI>80. power input :220-240V @ 50 hz & power factor >.9 along with CE approved drivers. 2 years warranty. (P.No.34, Item No 11.3 PWD Electrical SR-2022-23) -12.3.1)LED light fitting 1x2' -9/10w	Each	20.00
128	12.3.2)LED light fitting 1x4' -20/22w	Each	100.00
129	12.3.2)LED light fitting 1x4' -20/22w	Each	10.00
130	Supplying exhaust fan of 1440 RPM of 300 mm (12") size with bracket blades complete for light duty suitable for operate of 230V 50Hz, AC Supply.	Each	6.00
131	Supplying exhaust fan of 1440 RPM of 300 mm (12") size with bracket blades complete for light duty suitable for operate of 230V 50Hz, AC Supply	Each	1.00

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Due to Security reasons ... Karnataka Public Procurement ... Management Auction Manage...

132	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system.	Each	20.00		
133	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Microprocessed release and Earth Fault as per IS-13947 (Icu = Ics)(34/9). (P.No.12, Item No 5.14 PWD Electrical SR-2022-23)	Each	2.00		
134	Supplying of multi function digital meter with three line back light LCD type display for voltage,Current,frequency,Power,Powerfactor,KVA,KWH,KVARsuitable for 3 Phase,4 wire LT network with IP 54 degree of protection and completely wired as required wuth communication Port and Class 0.5s accuracy	Each	2.00		
135	Supplying,fixing and wiring earth leakage relay with core balanced current transformer suitable for single phase 50 Hz AC with latest microcontroller based,digital readout of percentage leakage current,programable delay/auto/manual reset facility suitable to mount on DIN rail/flush mounting on panel board	Each	1.00		
136	Supplying, fixing and wiring 50/5A to 400/5A, 5VA Burden class 1 Current Transformer.	Each	3.00		
137	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and wiring complete as required.-5.17.8)40Amps TPN	Each	3.00		
138	5.17.9)50-63Amps TPN	Each	2.00		
139	5.17.5)40Amps DP	Each	3.00		
140	5.17.4)6-32Amps DP	Each	2.00		
141	Supplying,fixing and Fixing of Shunt trip suitable for MCCB CBCT (P.No.12, Item No 5.15 PWD Electrical SR-2022-23)	Each	6.00		
142	Supplying .....amps rated 3phase with netural bus bar using required capacity electrolytic alluminium strips covered with heat shrinkable coloured PVC sleeve,mounted on phenolic/ERP/DMC insulator which are mounted on powder coated 40x6 mm M.S.flat frame work in existing panel board.The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts,nuts and washers etc.,complete.(P.No 15, Item No 5.40 PWD Electrical SR-2022-23)	Rmtr	3.00		
143	Fabricating supplying and mounting MS box made out 16 SWG suitable for floor/wall mounting,fully weather proof with provision for better heat dissipation, provided with hinged front cover,equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.-5.42.1)14SWG	Sq-mm	1500.00		
144	5.42.2)16SWG	Sq-mm	1000.00		
145	Supplying and fixing of LED type pannel board indicating lamp with reqired colour suitable for 220v A.C.50 Hz 12/24v D.C. (P.No.14, Item No 5.38 PWD Electrical SR-2022-23)	Each	4.00		

SECTION 8: DRAWINGS
(Enclosed)

SECTION 9: BILL OF QUANTITIES

(1) Item for which no rate or price has been entered in will not be paid for by the Employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities (refer: ITB Clause 11.2 and CC Clause 37.2)

EXECUTIVE ENGINEER
YELAHANKA DIV

CONTRACTOR

(2) Unit rates and prices shall be quoted by the Tenderer in Indian Rupees

(3) Where there is a discrepancy between the rate in figures and words, the lower of the two will govern.

(4) Where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by quantity, the unit rate quoted shall govern [ITT Clause 24.1 (b)]

(5) GST will be paid separately to the Tendered Amount

SECTION 10: FORMAT OF BANK GUARANTEE FOR SECURITY DEPOSIT

To .....*[name of Employer]*
.....*[address of Employer]*

WHEREAS .....*[name and address of Contractor]* (hereinafter called "the Contractor") has undertaken, in pursuance of Contract No. ..... dated : ..... to execute .....*[name of Contract and brief description of Works]* (hereinafter called "the Contract");

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee;

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total of Rs. .....*[amount of guarantee]*.....*[in words]*, and [38] Rupees..... we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of .....*[amount of guarantee]*[39] as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid until 30 days from the date of expiry of the Defects Liability Period.

Signature and seal of the guarantor _____
Name of Bank _____
Address _____
Date _____

[38] An amount shall be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract

[39] An amount shall be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract